

## ABSTRACT

### Radiophonic audience customizing and pick-up device.

The signal is picked-up by the antenna (1), amplified at (2), mixed at (4) with the signal generated in the local voltage-controlled oscillator (17), amplified at the intermediary frequency stage (5), supplied to the detector (6) and amplified at (7) to supply the loudspeakers (8). Only certain predetermined values can be introduced in the divider (13) of the PLL loop and, as a result the receiver can only be tuned to certain frequencies comprised in each band.

Such device is appropriate to set up a communication channel defined between one or a plurality of radio broadcasting stations/channels, and is therefore capable of increasing and customizing the audience of such radio stations. Various alternatives are considered; analog or digital tuning; by direct set up of the frequency or by scanning and comparison; use of the RDS/RBDS systems; operation in frequency bands of analog radio broadcasting (modulation of amplitude or modulation of frequency) and of digital radio broadcasting (DAB Eureka-147 / IBOC / IBAC).

